

<b>TRANSMITTAL LETTER TO THE UNITED STATES  DESIGNATED/ELECTED OFFICE (DO/EO/US)  CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>239188</b> CLIENT REF. NO. Tak-201405 U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>Unassigned 53118</b> PRIORITY DATE CLAIMED 15 April 2003 (15.04.2003)
INTERNATIONAL APPLICATION NO. <b>PCT/JP2004/004612</b>	INTERNATIONAL FILING DATE <b>31 March 2004 (31.03.2004)</b>	
TITLE OF INVENTION <b>METHOD OF GROWING SPERM STEM CELLS <i>IN VITRO</i>, SPERM STEM CELLS GROWN BY THE METHOD,  AND MEDIUM ADDITIVE KIT TO BE USED IN GROWING SPERM STEM CELLS <i>IN VITRO</i></b>		
APPLICANT(S) FOR DO/EO/US <b>SHINOHARA, Takashi; SHINOHARA, Mito</b>		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 USC 371 and 37 CFR 1.491. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 USC 371(f)). 4. <input checked="" type="checkbox"/> The US has been elected (PCT Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 USC 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 USC 371(c)(2)). a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has previously been submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 USC 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 USC 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 USC 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 USC 371(c)(5)). 11. Nucleotide and/or Amino Acid Sequence Submission a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper Copy c. <input type="checkbox"/> Statement verifying identity of above copies <b>Items 12 to 20 below concern other document(s) or information included:</b> 12. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> Form PTO-1449 <input type="checkbox"/> Copies of References (except for U.S. patents and applications) 13. <input type="checkbox"/> An assignment for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment. 15. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment. 16. <input type="checkbox"/> A substitute specification. 17. <input type="checkbox"/> A change of power of attorney and/or address letter. 18. <input checked="" type="checkbox"/> Application Data Sheet Under 37 CFR 1.76 19. <input checked="" type="checkbox"/> Return Receipt Postcard 20. <input checked="" type="checkbox"/> Other items or information:		
<div style="text-align: right;"> Formal Drawings (Figs. 1-7)  English translation of Written Opinion of International Searching Authority  English translation of Written Opinion of International Preliminary Examining Authority  English translation of Response to Written Opinion </div>		

**SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>Unassigned</b>		INTERNATIONAL APPLICATION NO. <b>PCT/JP2004/004612</b>		ATTORNEY DOCKET NO. <b>239188</b>		CLIENT REF. NO. <b>Tak-201405</b>	
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The following fees are submitted:				CALCULATIONS	PTO USE ONLY
21. <input checked="" type="checkbox"/> Basic national fee ..... \$300				\$300.00	
22. <input checked="" type="checkbox"/> Examination Fee					
If international preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$ 0				\$200.00	
All other situations ..... \$200					
23. <input checked="" type="checkbox"/> Search Fee					
USPTO was ISA ..... \$100				\$400.00	
Search report provided to USPTO by other entity ..... \$400					
All other situations ..... \$500					
<b>TOTAL OF 21, 22 AND 23 =</b>				<b>\$900.00</b>	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.				\$	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/ 50 =		x \$250	\$	
<input type="checkbox"/> Surcharge of \$130 for furnishing the National fee or oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$	
CLAIMS		NUMBER FILED	NUMBER EXTRA	RATE	
Total Claims		27 - 20 =	7	x \$ 50	\$350.00
Independent Claims		10 - 3 =	7	x \$200	\$1,400.00
<b>MULTIPLE DEPENDENT CLAIM(S) (if applicable)</b>				+ \$360	\$
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$2,650.00</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$ ( )	
<b>SUBTOTAL=</b>				<b>\$</b>	
<input type="checkbox"/> Processing fee of \$130 for furnishing English Translation later than 30 months from the earliest claimed priority date.				\$	
<b>TOTAL NATIONAL FEE=</b>				<b>\$2,650.00</b>	
<input type="checkbox"/> Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property.				\$	
<b>TOTAL FEES ENCLOSED=</b>				<b>\$2,650.00</b>	
				Amount to be: refunded	\$
				Amount to be: charged:	\$

a. ☐ No fee is believed to be due.

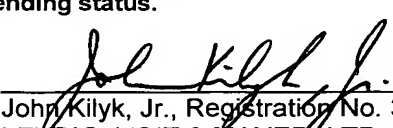
b. ☒ Please charge Deposit Account No. 12-1216 the total fee indicated above.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 12-1216. A duplicate copy of this sheet is enclosed.

**NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.**

SEND ALL CORRESPONDENCE TO CUSTOMER NO. 23460:

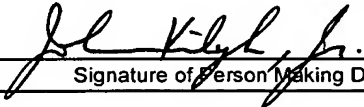
**23460**

  
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Date: October 13, 2005

10/553118

JC20 Rec'd PCT/PTO 13 OCT 2005

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EV 420405915 US "Express Mail" Mailing Number		October 13, 2005 Date of Deposit	
<p>I hereby certify that this transmittal document with respect to the U.S. national phase of the above-referenced International Patent Application, including all of the items listed thereon as enclosures, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p>			
John Kilyk, Jr. Typed or Printed Name of Person Making Deposit		 Signature of Person Making Deposit	